

BRAIN QUICK

BRAIN QUICK - LTM LINE

The “Solution” for Epilepsy Long Term Monitoring. FullHD 40/72/136/256 Channels



EXPERTISE. ANY DETAIL IS LTM ORIENTED

Micromed BRAIN QUICK LTM systems are based on an over-20 years' experience working close to the best EMU center worldwide. This allows the system to be easily customized to the always-different needs of recording, monitoring and reviewing of the EEG, Audio and Video and Events that any Epilepsy center has.

INTEGRATION. BEYOND ANY EXPECTATION

Micromed offers distributed solutions ranging from a single stand-alone unit to tenth of units interconnected over the network in real-time. Database can be centralized and integrated with Hospital Information Systems in compliance with all data management policies. HL7 Messages interface is also available and standardized to the highest level. Systems allows Secure Data Sharing and virtualization of resources. All of this, together with the extraordinary expertise of the Micromed team allows easy customization of the solutions for VideoEEG and Report collection, distribution and archiving.

TECHNOLOGY. WE DEFINES THE STANDARDS

40 and 72 channels amplifiers that can be daisy chained to get to 136 or 256 channels with sampling rate of 8/16 KHz and lot of Polygraphic channels. All of this into extremely comfortable “wearable” devices with very long lasting batteries that allows using them as fully independent ambulatory recorders as well. Very high-resolution video systems (FullHD) combined into distributed solutions with full control of any single element from any desired location, keeping maximum precision of the synchronization. The dedicated, compact, programmable and fully software controlled Cortical Stimulator has set a new standard in the field.

NO LIMITS MOBILITY. A WORLD WITHOUT EDGES

Advanced management of wireless communication, with roaming on different areas and automatic switching between wired / wireless / “no connection” modes allows truly continuous recording without losing any single sample of EEG data.

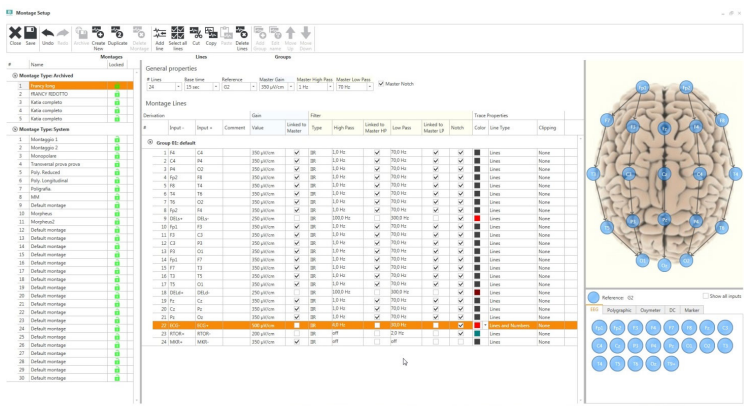
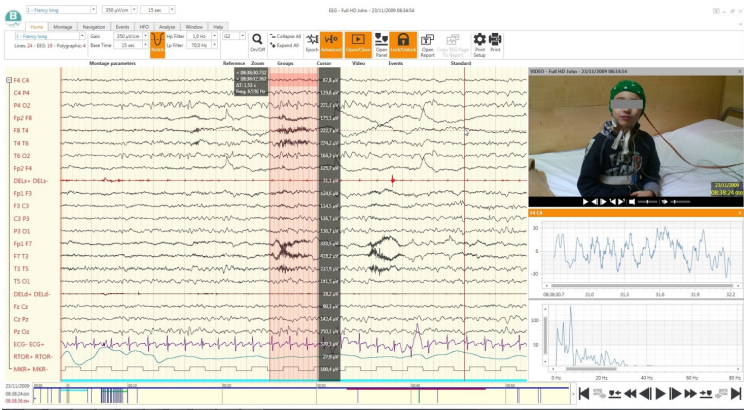
SOFTWARE. WE MANAGE COMPLEXITY

The powerful BRAIN QUICK software platform manages multiple type of tests (EEG, LTM, ICU, EMG, EP). Dedicated tools for Long Term EEG recording allows panoramic view of events distributed on different recordings and/or different days. Additional tools exists for video archiving and video clipping even during collection. Advanced real time networking with Remote Review allow continuous and efficient monitoring of the recording from any other station. HFO High Frequency Oscillation analysis is also available now.

MODULAR. CONTINUOUS GROWTH

From a single Stand-Alone Device to a distributed networked system: from 40 to 256 channels. The compliance with the most advanced standards allows an easier and faster integration of any recording or review and analysis station. Third party software can be easily integrated to run Full PSG analysis, Source Analysis and

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INTEGRATION

Network Integration with:

- Single Software that manages all Applications
- Centralized SQL Database – Archive
- HL7 Interface with Hospital Information System
- Fully Compliant with Data Protection and Data Security policies
- Automated DVD or Blu-ray Writing
- Remote Review/Control via Network of any system
- Predisposition for advanced services, resources and application virtualization

AMPLIFIERS BEYOND LIMITS

- Ultra-compact amplifiers SD LTM 32/64 EXPRESS Series
- Extremely small size and low weight
- 22/24 bit AD Converter, Bandwidth from DC to 4.4 kHz, LSB 0.38nV (0.095nV on dedicated channels)
- Dynamic Range from $\pm 3.2mV$ to $\pm 1638.4mV$ ($\pm 0.8mV$ a $\pm 51.2mV$ on dedicated channels)
- Sampling Rate up to 16384 Hz/channel on all channels
- Interface with PC via PCI EXPRESS/USB/Network plus Wireless

SD LTM 32 EXPRESS E SD LTM 64 EXPRESS

- SD LTM 32 EXPRESS: 40 Channels, up to 32 Common Reference channels, 8 possibly Bipolar
- SD LTM 64 EXPRESS: 72 Channels, up to 32 Common Reference channels, 8 possibly Bipolar
- SD LTM 64 EXPRESS: can be daisy chained to get 128 / 256 channels
- 2 Direct Inputs for Respiratory Inductive Belt
- 3 channels for SpO2, Heart Rate, Pletismogram
- 2 DC Channels
- 1 integrated channel for Body Position
- Availability of several different Jackbox for different clinical need
- LCD Display with Signal drawing, Impedance values
- Noise < 0.15 V r.m.s. CMRR > 125 dB

COMPACT CORTICAL STIMULATOR SD LTM STIM

An excellence of the Micromed product portfolio, concentrating in a small space all the flexibility and the control that are needed to run such an important task. Maximum reliability with a complete annotation of the stimulation task performed.

VIDEO

Synchronized Digital VideoEEG:

- Possibility to use HDMI or IP cameras
- Very High Resolution (HD, FullHD)
- 25 or 30 Frame/Second Digital Zoom up to 16x
- Software or Joystick based PTZ Camera Control
- High Level Multicamera system management
- Integrated HiFi Audio

TOTAL CONTROL

The new BRAIN QUICK Software is a milestone in term of user interface: developed with the help of the most important Epilepsy Center, has already become the state-of-the-art in term of VideoEEG Data management. Flexibility and innovative graphic design allows a new experience in daily clinical work: reporting has never been so easy and friendly.

A VIEW TO THE FUTURE

Possibility to expand the system with:

- Mapping, Source Localization and Sleep Analysis
- Advanced Software tools, both integrated and external (BESA, PERSYST), for Data Analysis, Spike and Seizure Detection, working On-Line and Off-Line
- EMG and/or EP of the MYOQUICK Series
- ERP with Back-Averaging
- EEG Analyser for On-Line and Off-Line Monitoring